

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-68
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Caterpillar, Inc. 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
PCT0638FPC8	10.5 (638)	Turbocharger Smoke Puff Limiter Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake-horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for this engine family in grams per brake-horsepower-hour:

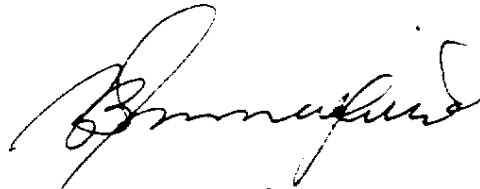
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
PCT0638FPC8	0.6	1.3	4.2	0.24

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 28th day of October, 1992.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

12-16-92

HEAVY-DUTY DIESEL ENGINES

Manufacturer Caterpillar Inc. Engine Family PCT0638FPC8
 Liter (CID) 10.5 (638) Fuel Type #2 Diesel (.25% Sulfur) Engine Config. 16
 Exhaust Emission Control Sys. and (Special Features) EM, SPL (TC,CAC,DI)

(Use abbreviations per SAE J1930 JUN 88)

Engine Model (Eng. Code)	Fuel Pump MFR. P/N	Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke	Part. Trap/ Catalyst MFR. P/N
3306C					
(A)	4P9839 (1)	7W7045	300 @ 2000	169	---
(A)	4P9839 (1)	7W7045	285 @ 2000	158	---
(B)	610155 (1)	7W7045	300 @ 1800	184	---
(B)	610155 (1)	7W7045	285 @ 1800	174	---
(C)	610155 (2)	1007552	300 @ 1800	181	---
(C)	610155 (2)	1007552	285 @ 1800	170	---
(D)	1045087 (2)	1007552	305 @ 1900	178	---
(D)	1045087 (2)	1007552	290 @ 1900	167	---

Revisions:
042090

(1) Basic Fuel Pump 1032957
 (2) Basic Fuel Pump 4P9827

(Reference Page No. 16.04-0638FPC-1).
 (Reference Page No. 16.04-0638FPC-1).
 Revision No. 1 - 09 DEC 92

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1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

HEAVY-DUTY DIESEL ENGINES

41

Manufacturer Caterpillar Inc. Engine Family PCT0638FPC8

Liter (CID) 10.5 (638) Fuel Type #2 Diesel (0.25% Sulfur) Engine Config. 16

Exhaust Emission Control Sys. and (Special Features) SPL (TC,CAC)

(Use abbreviations per SAE J1930 JUN 88)

Engine Model (Eng. Code)	Fuel Pump MFR. P/N	Injector MFR. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke	Part. Trap/ Catalyst MFR. P/N
3306C					
(A)	4P9839 (1)	7W7045	300 @ 2000	169	---
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Revisions:
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(1) Basic Fuel Pump 1032957

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Revision No.

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